COMPARISON

RIVETT 1020S LATHE AND MONARCH MODEL EE

	Rivett	Monarch
Weight including electrical equipment	3900 lbs	2900 lbs
Floor space	29" x 73" L	29" x 64" L
Maximum main drive horse power	5 HP	3 HP
Mechanical variable speed drive – simplifies service	Yes	No
Vee belts transmitting power to spindle	Three "A"	Two "A"
Minimum velocity of driving vee belts to spindle	314' per min.	6.8' per min.
Turning power through headstock back gearing at low spindle speed	Yes	No
Spindle can be run at high speeds with no driving gears engages	Yes	No
Clutch between drive and headstock permits stopping lathe spindle without stopping main drive	Yes	No
Push button control for speed changing and complete operation	Yes	No
Spindle has intermediate third bearing to prevent spindle deflection	Yes	No
Spindle has convenient handwheel for turning	Yes	No
Collets mount directly in ground mouth of spindle to assure greatest precision	Yes	No
American Standard Camlock spindle nose standard for 10" toolroom lathe	Yes – with 4" D1	No – with 8" D1
Optional American Standard long taper key-drive spindle nose L0	Yes	No

Spindle nose is graduated for multiple thread indexing to start 2, 3, 4, 5 or 6 threads	Yes	No
Power from spindle gear box carriage turning feed transmitted by	Gearing	Flat Belt
Number of threads automatically setup through gear box	84	60
Range of threads through gear box	2 to 240	3 to 184
Number of leads automatically setup through gear box	72	50
Multiple splined feed rod	Yes	No
Hardened and ground "Steelways"	Yes	No
Width of ways to distribute and absorb cutting load	12-3/4"	10-1/2"
Tailstock spindle diameter	1-5/8"	1-1/4"
Morse taper in tailstock	No. 3	No. 2
Drills are driven by an inside slot in tailstock which does not break through the wall	Yes	No

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COMPARISON

RIVETT 1020S LATHE AND MONARCH MODEL EE

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Weight including electrical equipment	3900 lbs.	2900 lbs.
Floor space	29" x 73" L	29" x 64" L
Maximum main drive horse power	5 HP	3 HP
Mechanical variable speed drive - simplifies service	Yes	No
Vee belts transmitting power to spindle	Three "A"	Two "A"
Minimum velocity of driving vee belts to spindle	314' per min.	6.8' per min.
Turning power through headstock back driving at low spindle speed	Yes	No
Spindle can be run at high speeds with no driving gears engages	Yes	No
Clutch between drive and headstock permits stopping lathe spindle without stopping main drive	Yes	No
Push button control for speed changing and complete operation	Yes	No
Spindle has intermediate, third-bearing to prevent spindle deflection	Yes	No
Spindle has convenient handwheel for turning	Yes	No
Spindle mount directly in ground mount of spindle to assure greatest precision	Yes	No
Has Standard Camlock spindle nose suited for 10" toolroom lathe	Yes with 4" D1	No, with 3" D1
Has American Standard long taper spindle nose - LO	Yes	No

Spindle nose is graduated for multiple thread indexing to start 2, 3, 4, 5 or 6 threads	Yes	No
Power from spindle to gear box carriage turning feed transmitted by	Gearing	Flat Belt
Number of threads automatically setup through gear box	84	60
Range of threads through gear box	2 to 240	3 to 184
Number of leads automatically setup through gear box	72	50
Multiple splined feed rod	Yes	No
Hardened and ground "Steelways"	Yes	No
Width of ways to distribute and absorb cutting load	12-3/4"	10-1/2"
Tailstock spindle diameter	1-5/8"	1-1/4"
Morse taper in tailstock	No. 3	No. 2
Drills are driven by an inside slot in tailstock spindle which does not break through the weaken wall	Yes	No